(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
9 October 2003 (09.10.2003)

PCT

(10) International Publication Number
WO 03/083805 A1

(51) International Patent Classification[7]: G09B 21/00, H04N 1/387

(21) International Application Number: PCT/NZ03/00053

(22) International Filing Date: 28 March 2003 (28.03.2003)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
518092 28 March 2002 (28.03.2002) NZ

(71) Applicant *(for all designated States except US)*: **PULSE DATA INTERNATIONAL LIMITED** [NZ/NZ]; 1 Expo Place, Bromley, Christchurch 8006 (NZ).

(72) Inventor; and

(75) Inventor/Applicant *(for US only)*: **SEAKINS, Paul, John** [NZ/NZ]; 1 Expo Place, Bromley, Auckland 8006 (NZ).

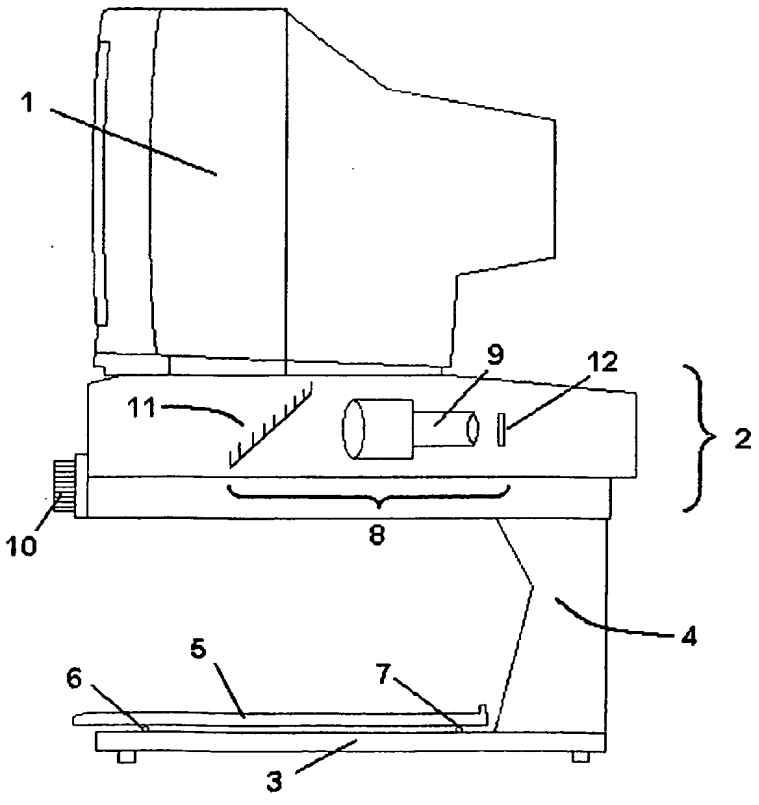
(74) Agents: **ADAMS, Matthew, D.** et al.; A J Park, 6th Floor, Huddart Parker Building, P.O. Box 949, Wellington 6015 (NZ).

(81) Designated States *(national)*: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States *(regional)*: ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

[Continued on next page]

(54) Title: LOW VISION VIDEO MAGNIFIER



(57) Abstract: A low-vision viewer magnifies the face-up source material in the visual field of a camera and displays the magnified image on a VDU or other display means. In a static mode, the camera captures and stores a high-resolution image of the source material. This high-resolution image can be manipulated and subsequently displayed on the VDU. In a live mode, the camera captures a low resolution image of the source material or a high resolution image of a section of the source material to provide a high frame rate for full motion video. In the live capture mode, the low-vision user can move their view around the source material and zoom in on a desired section of interest. The same camera is used in either static or live modes.

WO 03/083805 A1